What is Computing Research? How Can I Participate?

Why participate in research opportunities?

- Earn stipend, scholarship, or credit
- Think through (and even solve!) challenging problems
- Gain knowledge and expertise
- Work with accomplished researchers
- Prepare for graduate school
- Learn life-long skills
- Build professional relationships
- Apply and discover new ideas and methodologies
- Improve your communication skills
- Contribute to a specific area of knowledge

How do you find research opportunities?

Ask your professors and mentors for opportunities. Visit research groups in your department. Search for "Undergraduate Research Experience" on the web.

Here's just a sample of what you'll find:

- CRA-WP Undergraduate Research Programs: DREU, see back of this page
  https://cra.org/cra-wp/for-undergraduates/
- National Science Foundation Research Experiences for Undergraduates (REU):
  https://www.nsf.gov/crssprgm/reu/reu_search.jsp
- COmputer ScieNce UndErgraduate Research (CONQUER) resources: http://conquer.cra.org/
- Department of Navy (DoN) programs for college students: http://nreip.asee.org/
- NSERC USRA in Canada: inquire with your department to find out how it works at your university
- Research Internships in Science and Engineering in Germany: https://www.daad.de/rise/en/
- HKU CS Research Internship Programme: http://www.cs.hku.hk/rintern/

When to apply?

Private Companies, Government Labs	Mid Fall – February
DREU and NSF REU programs	Mid-February to Mid-March e.g., DREU due date is typically Mid-February
Your College / University	Often early in the calendar year

These are typical due dates – many places start accepting applications and awarding positions much sooner. **Start Early!**

(OVER)

![CRA-WP Computing Research Association Widening Participation]

CRA-WP Undergraduate Research Program

	DREU
Time	Summer (10 weeks)
Stipend per student	$7000 per summer; relocation travel assistance when appropriate
Location	Mentor's institution
Deadline to apply	Mid-February

What to include in your Undergraduate Research Resume

- Relevant courses
- GPA - You'll also typically need to submit a transcript
- Major projects
- Publications (if you have them; most undergraduates don't)
- Work experience
- Languages, tools, etc. including level of proficiency

Be careful, neat, and honest

Additional Resources:

CRA-WP resources for undergraduates:
https://cra.org/cra-wp/for-undergraduates/

CRA-WP DREU:
https://cra.org/cra-wp/dreu/